

ATTACHMENT C

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM FOR GENERAL WATER REUSE ORDER NO. R4-2009-XXXX

I. GENERAL

This Monitoring and Reporting Program (MRP) is issued pursuant to California Water Code section 13267(f). Changes to monitoring shall be established with concurrence of Los Angeles Regional Water Quality Control Board staff, and a description of the revised stations shall be submitted. All samples should be representative of the volume and nature of the discharge or matrix of material sampled. The time, date, and location of each sample shall be recorded on the sample chain of custody form. All analyses shall be performed in accordance with the latest edition of *Guidelines Establishing Test Procedures for Analysis of Pollutants*, promulgated by the United States Environmental Protection Agency (US-EPA) or other procedures approved by the Regional Water Quality Control Board, Los Angeles Region (Regional Board). In reporting monitoring data, the Producer or Distributor shall indicate whether any analysis was performed using a method not in conformance with US-EPA's Guidelines.

The principal purposes of the MRP are:

- A. To document compliance with water quality requirements and prohibitions established by this Regional Board; and,
- B. To facilitate self-policing by the water recyclers.

II. RECYCLED WATER MONITORING

A Producer shall develop and implement a MRP. When the User(s) is other than the Producer, delegation of responsibilities must be clearly spelled out and included in the Producer's Water Use Permits.

- A. Recycled Water Effluent Quality - Producer Program

The Producer's MRP is applicable during periods when recycled water is in use. The MRP shall include the observations, sampling, measurements, and analyses prescribed in Table 1 on Page C-5.

The sampling station shall be established where representative samples of treated and disinfected effluent (effluent) water can be obtained. The treated

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effluent samples shall be obtained from the effluent channel downstream of the chlorine contact basin. Should there be any change in the sampling station, the proposed station shall be approved by the Executive Officer prior to its use.

B. Monitoring of Recycled Water Users - Producer/User Program

1. Self-Monitoring Program

The Producer will set individual user monitoring requirements based on the size, volume used, complexity, etc. of each use area. Producer conducted monitoring, or user self-monitoring if approved by the Producer, shall be conducted at least annually.

All recycled use areas, while recycled water is being used, shall be inspected at a frequency, specified by the Producer's Water Reuse Permit, for the following deficiencies or violations of use:

a. Standard Observations

- i. Evidence of runoff of recycled water from the site may affect surface water or impair groundwater (show affected area on a sketch, estimate volume).
- ii. Odor of wastewater origin from irrigation site. If present, indicate apparent source, characterization, and direction of travel.
- iii. Evidence of ponding of recycled water, and evidence of mosquitoes breeding within the irrigation area due to ponded water.
- iv. Warning signs properly posted to inform public that irrigation or water use is recycled water which is not safe for drinking.
- v. Evidence of leaks or breaks in the irrigation system pipelines or tubing.
- vi. Evidence of broken, or otherwise faulty drip irrigation system emitters or spray irrigation sprinklers.
- vii. Evidence of overflows, leaks, erosion of dikes, etc. of storage pond(s) or impoundment(s).

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All violations shall be followed by a discussion of when and how deficiencies were corrected.

b. Description of Sampling and Observation Stations

i. Land Observation Stations (L-1 to L-n): Locations at a sufficient number of points at reuse areas in order to ensure compliance with water reuse requirements.

ii. Impoundment Stations (P-1 to P-n): Locations at points along the periphery of each storage, ornamental, golf course, or other pond or impoundment.

2. Inspection Program

A Producer shall also conduct periodic random inspections of Users to ensure compliance with CDPH reuse criteria and the Water Reuse Permit. Inspections shall be performed when recycled water is being used. Any significant repairs or modifications made to the system involving compliance with this Order shall be described in the Annual Report.

III. REPORTING REQUIREMENTS

A. Significant Violation Reporting

Violations of the CDPH's water recycling criteria that impact or threaten to impact public health or water quality shall be reported to the Board by phone within 24 hours, followed by a written report within 15 days describing corrective actions taken.

B. Annual Report to the Regional Board

An annual report for each calendar year shall be submitted to the Board by the Producer by March 15 of each year. The report shall contain a statement by the reporting official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct. The report shall include the following:

1. Tabulation of SMP recycled water analyses (see Table 1).
2. A tabular summary of recycled water use by billing period by each User.

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3. A list of new authorized recycled water Users, including the name of customers, application, source and projected annual flow to be delivered.
4. A summary of the total daily recycled water delivered by the Producer.
5. Tabulation of User site inspections conducted by the Producer.
6. A summary of effluent violations related to recycled water use, violations found during inspection of reuse sites, corrective actions taken and any changes to, or revoking of User authorizations by the Producer.
7. An update regarding current and future development of the water recycling program, including planning, design and construction of facilities, preparation of required reports and technical documents and progress toward regulatory approvals.
8. Progress and evaluation of any special studies or projects being undertaken related to the program.

I, Tracy J. Egoscue, Executive Officer, do hereby certify that the foregoing Monitoring and Reporting Program is effective on the date shown below and may be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the Producers. Revisions to the Monitoring and Reporting Program will be authorized in writing by the Executive Officer.

Tracy J. Egoscue
Executive Officer

Date: March 5, 2009

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Table 1 Producer's Schedule Sampling and Analyses

Parameter (Unit)	Sampling Location			
	E-001		L(s)	P(s)
	Sampling Type and Minimal Frequency			
	Grab	Continuous	Observation	Observation
Flow rate (gallon/day)	---	√	Daily ¹	Daily ¹
Total coliform (MPN/100mL)	Daily ^{2,3}	---	---	---
Turbidity (NTU)	---	Daily ^{2,3}	---	---
Dissolved oxygen (mg/L)	3/Week ²	---	---	---
Dissolved sulfides (mg/L) (if DO < 1mg/L)	3/Week ²	---	---	---
Standard observations	---	---	Annually ⁴	Annually ⁴

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¹ Records of recycled water use at each site may be compiled from billing period readings (divided by number of days to obtain daily flow) and submitted with the annual report.

² Equivalent routine effluent (NPDES/WDR) monitoring data collected on days and during times (grab samples) recycled water is being produced can be submitted in fulfillment of these requirements.

³ Unless current NPDES or WDR sampling frequency is less. Turbidity would apply to tertiary-treated recycled water only and is based on a 24-hour composite sample.

⁴ User sites to be inspected a minimum of annually for "Applicable Standard Observations" based on the size and complexity of each site in accordance with the Producer's Water Reuse Program.